



JCOTS 2011/2012 Update

December 7, 2011

Peter Jobse
CIT President and CEO

Agenda



GAP Family of Funds



Commonwealth Research Commercialization Fund



Technology Assimilation Programs



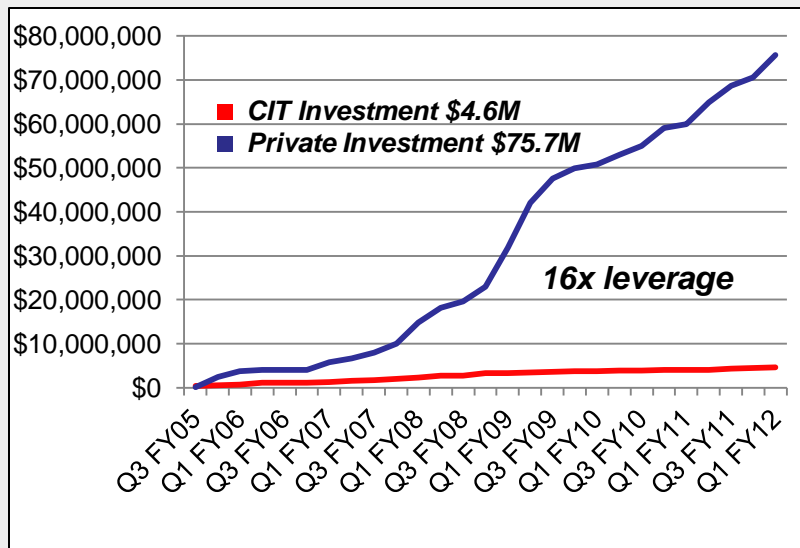
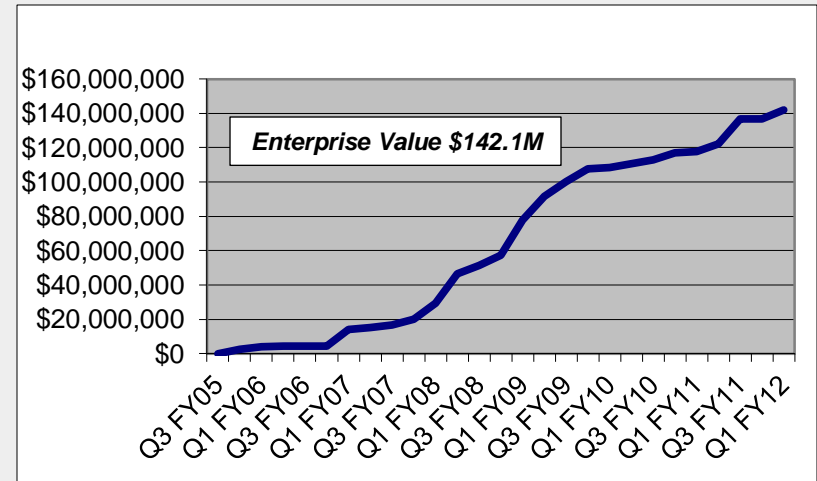
Broadband Penetration and Telework Promotion Programs



Commonwealth Programs and Projects

GAP Family of Funds

<u>2011</u>	<u>Phase</u>	<u>2012</u>
565	Application	500+
44	Review Meeting	125+
15	Board Presentation	75+
6	Investment	45



Commonwealth of Virginia
 Office of Governor Bob McDonnell

FOR IMMEDIATE RELEASE

November 1, 2011

“.....C3RS has hired four additional people this year and is in the process of hiring 10 more by the end of 2011 for expanded operations in January 2012. Through its recycling efforts, C3RS enables manufacturers to eliminate thousands of tons of carbon emissions by utilizing recycled rubber crumb material in products, which in turn prevents tons of tire scrap from filling up Virginia’s landfills each year.....”

Commonwealth Research Commercialization Fund



2012 CRCF Funding

\$10M appropriated for FY2012

- \$4M for CIT GAP Fund
- \$2M for SBIR Phase I NIH matching grant
- \$4M for other programs
 - Matching Funds
 - Facilities Enhancement Loan
 - Commercialization
 - Eminent Researcher Recruitment

Fall 2011 CRCF Proposal Submission

Program	Eligible Applications	Eligible Organizations	Funds Requested
SBIR Matching Funds	19	18	\$950k
Matching Funds	16	9	\$1.6M
Facilities Enhancement	1	1	\$500k
Commercialization	53	53	\$17M
Eminent Researcher Recruitment	1	1	\$250k

Research & Technology Investment Advisory Committee

Designated in Legislation			Citizen Members		
Research University	Tom Skalak	UVA	Venture Capital	Bobby Ocampo	Grotech
Research University	Dennis Manos	WM	Venture Capital	Robert Patzig	Third Security
Research University	Mohammad Karim	ODU	Engineering Firm	Dan Gonzalez	Avison Young
Research University	Ken Newbold	JMU	Research Facility	Bob Kahn	CNRI
VEDP	Martin Briley	VEDP	Technology Company	Tom Kirchmaier	General Dynamics IT (GDIT)

Research & Technology Strategic Roadmap **Sectors for Investment**

- Advanced Manufacturing
- Aerospace
- Communications
- Cyber Security
- Energy
- Environment
- Information Technology
- Life Sciences
- Modeling and Simulation
- Nuclear Physics
- Transportation

Technology assimilation programs

Longitudinal Data System – Data Governance Virginia DOE

Partnership with DOE to secure \$17.5M of federal DOE funds

Challenge: Access interagency data to monitor student progress

Solution: Interagency architecture compliant with privacy law

CIT role: Facilitate the process and develop architecture

Value : K-12 educational monitoring and analysis data source

Apps4VA Virginia DOE

Mobilize creativity to capture knowledge from SLDS data

Challenge: Turn SLDS data into educational insight

Solution: Conduct an application development challenge

CIT role: Facilitate the challenge and stimulate competition

Value : Creative-cost effective knowledge and industry development

Student Growth Measures Virginia DOE

\$17.5M SLDS Award required student progress measures

Challenge: Establish student growth measurement metrics

Solution: Deploy statistical models to calculate student growth

CIT role: Conduct statewide stakeholders sessions and training

Value : Educators can better manage student development

Electronic Medical Records Implementation Virginia Health Quality Center

Partnership with VHQC to increase EMR adoption

Challenge: Implement EMR in rural clinics

Solution: Provide web based software and implementation support

CIT role: Evaluate and select EMR software

Impact : 2,285 rural physicians have committed to implement
56% have gone live
ranked 1st nationally for meaningful use

Broadband Programs

NTIA Mapping Program

Partnership with the National Telecommunication and Information Administration (NTIA) – part of National Broadband Mapping Initiative

Challenge: Develop interactive broadband availability (supply-side) map that integrates with the National Broadband Mapping and Planning initiatives

CIT Role: CIT is the Commonwealth's designated entity and coordinates all interactions and data submissions between Commonwealth broadband providers and NTIA

NTIA Capacity Building

Partnership with the National Telecommunication and Information Administration (NTIA) – part of National Broadband Initiatives

Challenge: Build on the baseline information gathered in the initial planning program to assess (on a yearly basis) broadband usage and readiness in key sectors and develop analyses and support programs to ensure adequate coverage

CIT Role: CIT is working with partners throughout the Commonwealth to continue to assess the connectedness and to develop workshops and programs to bolster adoption

NTIA Planning Program

Partnership with the National Telecommunication and Information Administration (NTIA) – part of National Broadband Initiatives

Challenge: Assess broadband usage and readiness in key sectors including education, e-commerce, and healthcare

CIT Role: CIT worked with the Education and Health and Human Resources Secretariats and partners to benchmark the connectedness of institutions with the need to implement bandwidth intensive applications – virtual schools, distance learning, meaningful use, etc.

Office of Broadband and Telework Promotion (OTPBA)

Partnership with the Secretary of Technology's Office to serve As VA's Resource Center for Broadband and Telework Initiatives

Challenge: Expand the deployment and adoption of Broadband and Telework infrastructure and applications

CIT Role: CIT provides staff support for OTPBA activities

Commonwealth Programs and Projects

Research and Technology Roadmap

	VEDP	CRCF	Tobacco Comm.	Universities	Industry	Localities	CIT
Value Add							
Strategic planning	●	●	●	●	●	●	●
Investment vetting	●	●	●	●		●	●
Company recruiting	●		●			●	●
Research recruiting	●	●	●	●	●	●	●
Scholar recruiting		●	●	●			●
Investor recruiting	●		●	●		●	●
NewCo formation		●	●	●	●	●	●
Fed program dev	●	●	●	●	●		●

Governor's Modeling and Simulation Assessment

Request: Assess Virginia's modeling and simulation capabilities

Approach: Review industry base and university research base

Tactical Approach: Initiate M&S marketing process

Strategic Approach: Develop legislative options for growth

Governor's Cyber Security Assessment

Request: Assess Virginia's cyber security capabilities

Approach: Review industry base and university research base

Tactical Approach: Produce comprehensive marketing material

Strategic Approach: Develop legislative options for growth

Virginia Commercial Space Flight Authority Opportunity and Challenge Assessment

Request: Examine VCSFA growth challenges and opportunities

Solution: Examine operational and governance structures

CIT role: Conduct consulting engagement and produce report

Value : List of action items to ensure stability and facilitate growth

